



Zettelmeyer ZL 702



Palett-specialist for high payloads

- High-performance, **environmental friendly diesel engine.**
Quiet, low emissions, economical fuel consumption.

- **Hydrostatic drive**

with significant advantages:

- Easy to operate due to automatic drive facility.
- Maintains high drawbar pull even when working hydraulics are engaged.
- Advantageous hydrostatic brake, wear-free and safe.

- **Powerful Z-bar loader linkage with two lifting cylinders:**

- High breakout-force and lifting capacity in bucket applications.
- Excellent loading fork lifting capability.

- Optimum traction due to **100%** supplementary **differential locks** in both axles.

- **Standard hydraulic quick-change coupling:**

Various tried-and-tested attachments for a wide range of applications.

- **Purpose-designed cab-comfort** for extra performance.

- **Gross Power**
SAE J1995 47,5 / 64,5 kW/hp
- **Operating Weight**
5,0 t
- **Bucket Capacities**
0,9 - 1,5 m³

Zettelmeyer

**ENGINE**

Engine: In-line 4-cylinder, 4 stroke, direct injection diesel engine with turbocharging, oil/air cooled

Dual filter air cleaning:

1. Paper filter with indicator
2. Safety filter

Make	Deutz	
Type	BF 4L 1011	
Gross power @	2200	r/min
SAE J1995	47,5/64,5	kW/PS
Net power	2200	r/min
SAE J1349	46,5/63	kW/PS
DIN 70020 / 6271	46,5/63	kW/PS
Max. torque at	1600	r/min
SAE J1349 netto	215	Nm
DIN 70020 / 6271	215	Nm
No. cylinders	4	
Cubic capacity	2,73	l
Bore	91	mm
Stroke	105	mm

Electrical System

Rated voltage	12	V
Battery voltage	12	V
Battery capacity	88	Ah
Alternator rating	840/60	W/A
Starter motor output	2,2/3,0	kW/PS

**DRIVETRAIN**

Transmission: Hydrostatic transmission, full power shift under load, both when changing direction (forward and reverse) and between work and travel range. Inch/Brake pedal for variable machine speed control.

Axles: All-wheel drive by two rigid portal axles.

Differential lock: 100% hydraulically operated differential locks in both axles.

Frame: Solid front and rear frame, robot-welded. Articulating oscillating joint for optimum manoeuvrability and traction.

Oscillation at wheel, max.	250	mm
Track	1472	mm
Angle of oscillation	± 10	°
Standard tyres	Size 405/70 R 20	
	Rim 13 x 20	

Speed, max.:		
Work range, forward/reverse	10,0	km/h
Travel range, forward/reverse	20,0	km/h

**SERVICE FILL CAPACITIES**

Engine	10,5	l
Fuel tank	60,0	l
Front axle, total	10,0	l
Rear axle, incl. transmission	11,0	l
Hydraulic tank, incl. hydraulic system	60,0	l

**BRAKING SYSTEM**

Service brake: Reliable dual braking system, acting upon all four wheels.

1. Wear-free, hydrostatic inching brake.
2. Central friction brake, actuated via "Inching/Brake Pedal", acting upon all four wheels.
In the first stage of the stroke, the "Inching/Brake Pedal" serves the "Inching", in the second stage the friction brake is additionally actuated.

Parking brake: Central drum brake, acting upon all four wheels.

**HYDRAULIC SYSTEM**

Thermostatically controlled oil circuit with integrated cooling system and electrically switched fan.

Hydraulic control valve: Double acting control valve three spool system.

1. Lifting function
2. Tilting function
3. Additional function:
Unlock, neutral, lock.
Preparation for operating hydraulic attachments available as an option.

Hydraulic oil filter: Main stream filter cartridge with a 10 µm degree of fineness in the return. Suction filter for the drive assembly with a 10 µm degree of fineness. The filters can be replaced without emptying the tank.

Lifting frame:	Z-Kinematics
	2 Lifting cylinders
	1 Tilt cylinder

Hydraulic pump		
Flow	50	l/min
@ engine R P M	2200	r/min
Relieve valve pressure	23	MPa
Lift time (loaded)	6,0	sec
Lowering time (empty)	3,0	sec
Dump time	1,0	sec
Crowd time	1,0	sec

**STEERING**

Central articulating joint with damping effect.

Steering pump: Gear-type tandem pump

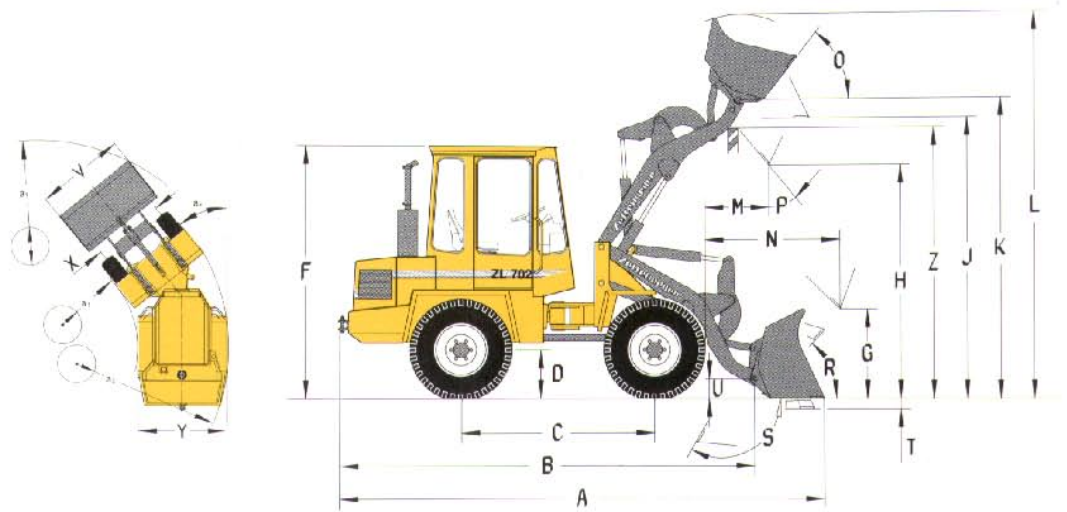
Steering cylinder: 1 double acting steering cylinder

Steering		
Angle of articulation	± 39	°
Steering pump		
Flow	24	l/min
@ engine R P M	2200	r/min
Relieve valve pressure	15	MPa



DIMENSIONS*

B	4275	mm
C	2000	mm
D	490	mm
F	2625	mm
G	960	mm
J	2930	mm
K	3130	mm
O	53	°
P	45	°
R	50	°
S	143	°
U	200	mm
X	1472	mm
Y	1895	mm
Z	2850	mm
a ₂	3800	mm
a ₃	1875	mm
a ₄	± 39	°



* with bucket 0,9 m³, quick-change mounting standard equipment, tyres 405/70 R 20



OPERATING DATA

Bucket Type	General Purpose Bucket		Light material Bucket		4 in 1 Bucket	High tip Bucket
	R	R	R	R	R	R
Mounting R (quick-change mounting standard equipment)						
Edge: straight (G) with/without (+/-) teeth	G + / -	G + / -	G -	G -	G +	G -
Capacity, heaped	m ³	0,9 1,1	1,3 1,5	0,85 1,5		
Material density	kg/m ³	1800 1500	1200 1000	1800 900		
Static tipping load, straight	kg	3950 3850	3750 3700	3600 3450		
Static tipping load, full turn (39° DIN)	kg	3500 3400	3300 3250	3200 3050		
Hydraulic lifting capacity, max.	kN	37,0 35,5	35,0 34,0	33,5 32,5		
Breakout force	kN	41,0 32,0	30,0 27,0	36,5 --		
A Total length	mm	5020 5200	5250 5350	5250 5350		
L Lift height, max.	mm	4010 4160	4200 4290	4000 4880		
V Bucket width	mm	1900 1900	1900 1900	1900 1900		
a ₁ Clearance circle	mm	8300 8460	8480 8550	8260 8980		
T Digging depth, max.	mm	90 90	90 90	90 90		
H Dump height	mm	2490 2340	2300 2230	2400 3570		
M Reach at max. height	mm	760 830	870 940	760 1230		
N Reach, max.	mm	1450 1520	1550 1620	1450 2420		
Operating weight	kg	5000 5040	5060 5090	5200 5330		



The Allrounder from Zettelmeyer: As versatile as your requirements!

Performance of the ZL 702 cannot be measured like a normal earth moving loader because the Zettelmeyer ZL 702 is much more than just a wheel loader. Select from a wide range of attachments. With quick coupling the machine is equipped for your job within seconds - all controlled from the operator's seat. Expensive idle times are eliminated on construction sites, farms, in gardening, landscaping or municipal jobs, maximising use of your investment. - Irrespective of summer or winter



Your Zettelmeyer knows no season!



ZL 702 - Traction in abundance

Radial tyres are standard on the ZL 702. This provides good stability and a low ground bearing pressure. The robust portal axles make the machine highly manoeuvrable and mobile in extremely difficult terrain. Even boggy ground conditions are no problem: with 100% differential locks - standard in both axles - the machine goes virtually through anything. Slanted engine cover gives superb visibility, and the low maintenance articulation/oscillation joint ensures an excellent manoeuvrability in tight quarters and uneven terrain.

A stable workhorse!

The ZL 702 with standard Z-bar loader linkage is designed for excellent production in material handling. In fork handling too, high performance is maintained: Confidence in loading - with the ZL 702 you are always on the safe side as regards stability, even when handling large capacity Euro pallets. This is ensured by the heavy operation weight and advantageous axle load distribution.



Operator comfort for increased operator performance

A suitable ergonomic environment is of paramount importance for good operator performance. The ZL 702 has a clearly designed cab interior with allround sound proofing and added comfort.

Operator comfort ...

- spacious detachable cab
- reliable heating and ventilation system
- fourway adjustable operator's seat

... for smooth working cycles

- clearly designed dashboard
- audio-visual warning system
- single lever control with integrated differential lock
- single pedal for inching and breaking



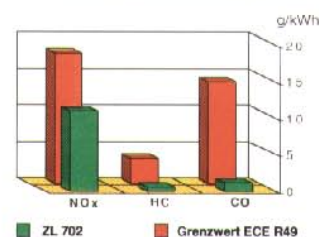
Hydrostatic Drive - Power you can rely on

Hydrostatic drive maintains a constant drawbar pull even when the working hydraulics are at maximum pressure. The automatic drive allows the operator to concentrate fully on the job. Gears can be shifted under full load in work, cycles remain smooth and productivity stays constantly high. The hydrostatic drive serves as the main braking system - a further advantage, this brake is completely wearfree.

The power source: Environmental friendly performance

The ZL 702 is equipped with an extremely powerful and efficient Deutz 1011 engine. The result leaves nothing to be desired. High performance, economical fuel consumption along with low acoustic and low exhaust emissions. Therefore the ZL 702 was honoured with the blue environmental seal "Environmental friendly - low noise". Transverse engine allows easy access to major components. Daily maintenance and servicing are made simple by eye level check points.

Exhaust Emissions ZL 702



Exhaust emissions of the ZL 702 are considerably lower than those required by EEC limits.

STANDARD EQUIPMENT

Cab, exterior

Removable cab with flexible mountings

Walk-through cab
Lockable doors

Tinted safety glass (Windscreen)
Windscreen wiper front and rear
Sliding window in the left door
Door stops
External rear view mirrors (right and left)

Cab, interior

4-way adjustable driver's seat
Seat belt

Sun-visor
Heater with air filter and defroster
Cab lighting
Storage box in the cab
Tool box

Instrument panel

with symbols
Instrument lighting
12 V power socket
Horn
Safety start

Gauges:
Fuel gauge
Hour meter
Drive system oil temperature

Indicator lamps for:
Direction indicator
Parking brake
Main beam
Pre-heater
Battery charging
Differential locks
Hazard warning flashers

Warning lights with central audible alarm for:
Engine temperature
Engine oil pressure
Drive system oil temperature
Air filter restriction
Parking brake

Exterior lighting

Main head lights (Halogen): full/dipped beam/asymmetrical
Parking lights
Rear lights
Brake lights
Direction indicators
Hazard warning lights

Powertrain

Diesel engine with direct fuel injection
Cold start aid
Dry-type air filter
Alternator 60 A

Hydrostatic drive
100% lockable differential lock

Tyres 405/70 R 20

Gear-type tandem pump
Control valve three spool system
Third hydraulic circuit

Service and maintenance

Tool kit

Working equipment

Single lever control
Bucket level indicator
Hydraulic quick-change attachment carrier

Carriage body

Fenders and mudguards, front and rear
Lockable engine hood
Lockable fuel tank cap
Vertical exhaust
Towing device

OPTIONAL EQUIPMENT

Cab

Handthrottle
Hand control inch valve
Heating independent of engine
Radio

Windscreen washer, front and rear
Sliding window in the right door
Hinge-out skylight

Safety

FOPS-guard
Protecting guards for
Main head lights (front)
Working lights (rear)
Rear lights
Rotating beacon with collapsible mounting
Audible reverse alarm
Counterweight

Powertrain

Pre-heater
Catalysator
Extra fuel filter
Zyklon pre-filter with ejector system

Service and maintenance

Wheel nut wrench

Working equipment

Working lights (front and rear)
ZLS-Load Stabilizer
Extended lift arms

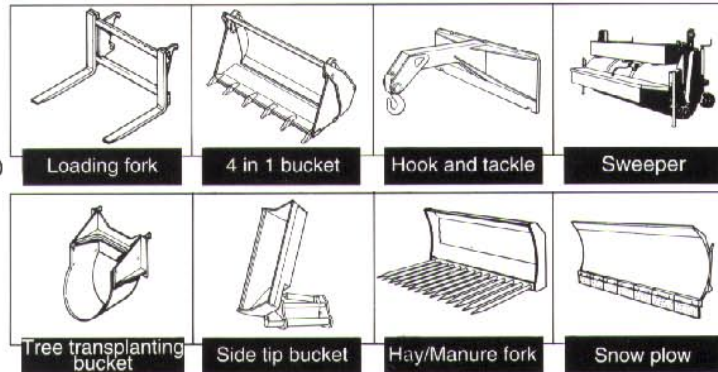
PTO
Extra hydraulics, rear
Additional hydraulics for attachment carrier
4th hydraulic circuit with cables
Hydraulic circuit with additional pump

ATTACHMENTS

Buckets

of various sizes
0,9 - 1,5 m³
with or without teeth

Wide range of bucket types, e.g.
Light material bucket (w. or w/o teeth)
High-tip bucket (without teeth)
4 in 1 bucket (with teeth)
Side-tip bucket without teeth
Brick bucket (with teeth)
Horticultural bucket
Bolt-on cutting edge



Further buckets and attachments available on request.

Selection of attachments, e.g. for

- Timber industry:
 - Log grapple
 - Loading fork with log grapple
- Road building/industry:
 - Loading fork
 - Hook and tackle
- Communal application:
 - Sweeper
 - Angle dozer blade
 - Snow plow
- Horticultural and agricultural field:
 - Hay/Manure fork
 - Front scarifier

Under our policy of continuous product improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.

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